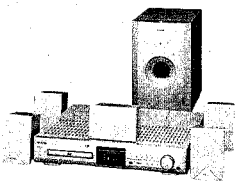
TEAC



SERVICE MANUAL

PL-D2000

AV Digital Home Theater System

DOLBY DIGITAL　DIGITAL dts SURROUND　COMPACT disc DIGITAL VIDEO　DVD VIDEO

NOTES

- PC boards shown are viewed from parts side.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- ⚠ Parts marked with this sign are safety critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [ ] mark can be used only with the version designated.
  [J]:JAPAN [US]:U.S.A. [C]:CANADA [HK]:HONG KONG
  [SG]:SINGAPORE [E]:EUROPE [K]:KOREA [UK]:U.K.
  [SAF]:SOUTH AFRICA [NZ]:NEW ZEALAND [F]:FRANCE

注　意

- プリント基板図は部品面を示しています。
- 分解図に部番のない部品および品番のない部品は供給できません。
- 標準の抵抗、コンデンサーは省略してあります。
  回路図を参照してください。
- ⚠印は安全重要部品です。
  交換する時は必ず指定の部品を使用してください。
- 仕向先
  [J]:JAPAN [US]:U.S.A. [C]:CANADA [HK]:HONG KONG
  [SG]:SINGAPORE [E]:EUROPE [K]:KOREA [UK]:U.K.
  [SAF]:SOUTH AFRICA [NZ]:NEW ZEALAND [F]:FRANCE

Effective : April, 2002　　S-0057A

CONTENTS

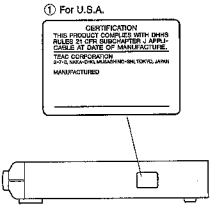
1 SAFETY INFORMATION ·····2
SAFETY INFORMATION
2 SPECIFICATIONS ·····3
仕 様
3 ADJUSTMENT AND CHECKS ·····5
調整と確認
4 EXPLODED VIEWS AND PARTS LIST ·····8
分解図とパーツリスト
5 PC BOARDS AND PARTS LIST ·····15
基板図とパーツリスト
6 BLOCK DIAGRAM ·····23
ブロック図
7 WIRING DIAGRAM ·····24
結線図

1 SAFETY INFORMATION

This product has been designed and manufactured according to FDA regulations "title 21, CFR, chapter 1, subchapter J, based on the Radiation Control for Health and Safety Act of 1968", and is classified as a class 1 laser product. There is no hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings.
The label required in this regulation is shown ①.

● CAUTION
USE OF CONTROLS OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

① For U.S.A.


CERTIFICATION
THIS PRODUCT COMPLIES WITH DHHS RULES 21 CFR SUBCHAPTER J APPLICABLE AT DATE OF MANUFACTURE.
TEAC CORPORATION
MANUFACTURED

Optical pickup:
Type : HOP-1000
Manufacturer : Hitachi Media Electronics Co., Ltd.
Laser output : Less than 0.5 mW on the objective lens
Wavelength : 770 - 810 nm (CD), 635 - 665 nm (DVD)

2 SPECIFICATIONS

仕 様

DVD Player

Pickup: Semiconductor laser, Wavelength 650 nm
Signal system: NTSC / PAL
Video signal horizontal resolution: More than 480 lines (DVD)
Video signal-to-noise ratio: More than 60 dB (DVD)
Audio frequency response (at 2 CH stereo mode):
DVD (PCM): 2 Hz ~ 22 kHz (+/- 1.0 dB)
CD: 2 Hz ~ 20 kHz (+/- 1.0 dB)
Audio signal-to-noise ratio: More than 80 dB
Total harmonic distortion: Less than 0.01%
Dynamic range:
DVD (PCM): More than 85 dB (2kHz, -60 dBFS)
CD: More than 85 dB

FM Tuner

System: PLL quartz-locked digital synthesizer system
Tuning range:
87.50 ~ 108.00 MHz (50 kHz step-European Model)
87.50 ~ 108.00 MHz (100 kHz step-General Export Model)
Antenna: FM pigtail antenna
Antenna terminals: 75 ohms, unbalanced
Intermediate frequency: 10.7 MHz

AM Tuner

System: PLL quartz-locked digital synthesizer system
Tuning range:
522 ~ 1620 kHz (9 kHz interval) (European Model)
530 ~ 1710 kHz (10 kHz interval) (General Export Model)
Antenna: AM Loop antenna

Video outputs

CVBS Video: 1 Vp-p 75 ohms
S-video: Y: 1 Vp-p 75 ohms
C: PAL 0.3 Vp-p 75 ohms / NTSC 0.286 Vp-p 75 ohms

Audio line outputs

Audio L/R: 2 Vrms, 1 kilohms
Subwoofer: 5 Vrms maximum (adjustable), 1 kilohms

Audio power outputs

Stereo mode: 20 W + 20 W (4 ohms at 1 kHz, THD 10%)
Surround mode:
Front: 20 W + 20 W (4 ohms at 1 kHz, THD 10%)
Center: 20 W (4 ohms at 1 kHz, THD 10%)
Rear: 20 W + 20 W (4 ohms at 1 kHz, THD 10%)
• **Phones:** Accepts low- and high-impedance headphones

Speakers

Active Subwoofer:
Power: 50 W (4ohms at 80 Hz, THD 10%)
Speaker system: Bass reflex
Speaker unit: 8 inches, dia. cone type
Rated impedance: 4 ohms
Dimensions: W160 x H333 x D222 mm
Weight: 5.0 kg
Front / Center / Rear speakers:
Power: 20 W maximum
Speaker system: Bass reflex
Speaker unit: 2 7/8 inches, dia. cone type
Rated impedance: 4 ohms
Dimensions: W99 x H105 x D100 mm
Weight: 0.8 kg

General

Power requirements:
120V AC, 60 Hz (General Export Model)
230 V AC, 50 Hz (European Model)
240 V AC, 50 Hz (Australian Model)
Power consumption: 250 W
Dimensions: W417 x H68 x D355 mm
Weight: 8.5 kg
Operating temperature: 5 °C ~ 40 °C
Operating humidity: 5% ~ 90%
Storage temperature: -20 °C ~ 55 °C
Supplied accessories:
AM loop antenna x 1
FM antenna x 1
Speaker cable (5m x 3, 10 m x 2)
RCA cable (for Subwoofer) x 1
Stickers to protect speakers x 1
Remote control unit x 1
Batteries (AA, R6, SUM-3) x 2

• Design and specifications are subject to change without notice.
• Weight and dimensions are approximate.

■本体

電源 ..... 100V AC 50-60Hz
消費電力 160W
外形寸法(W x H x D) 430mmx78mmx383mm
質量 8.1kg
許容動作温度 ..... +5℃~+40℃
許容動作湿度 ..... 5%~90%(結露のないこと)
許容保管温度 ..... −20℃~+55℃

アンプ部

ステレオ出力(10% THD, 1kHz, 4Ω)
フロント ..... 25W+25W
サラウンド出力(10% THD, 1kHz, 4Ω)
フロント ..... 25W+25W
センター 25W
リア ..... 25W+25W
音声出力(ライン)
AUDIO OUT 2Vrms, 1kΩ
SUBWOOFER ..... 最大5Vrms(可変), 1kΩ

DVDプレーヤー部

レーザー ..... セミコンダクターレーザー
信号方式 ..... NTSC/PAL
周波数特性(2CH STEREOモード)
DVD(PCM) ..... 20Hz~22kHz(±1.0dB)
CD ..... 20Hz~20kHz(±1.0dB)
SN比 ..... 80dB(AUDIO)
60dB(VIDEO)
全高調波歪率 0.03%以下
ダイナミックレンジ
DVD(PCM) ..... 85dB(2kHz, −60dBFS)
CD 85dB

ビデオ部

映像出力 ..... 1 Vp-p, 75Ω
S映像出力
Y出力レベル ..... 1 Vp-p, 75Ω
C出力レベル(NTSC) ..... 0.286 Vp-p, 75Ω
C出力レベル(PAL) ..... 0.3 Vp-p, 75Ω
コンポーネントビデオ出力(Y, Cb, Cr)
Y出力レベル ..... 1.0 Vp-p, 75Ω
Cb出力レベル ..... 0.7 Vp-p, 75Ω
Cr出力レベル ..... 0.7 Vp-p, 75Ω

チューナー部

受信周波数
FM ..... 76.0MHz~90.0MHz(100kHzステップ)
AM ..... 522kHz~1,620kHz(9kHzステップ)

■フロント/センター/リアスピーカー

ユニット 75mm
インピーダンス 4Ω
最大入力 25W
外形寸法(W x H x D) ..... 90mmx130mmx100mm(サランネット含む)
質量 ..... フロント/センター：0.7kg, リア：0.5kg

■サブウーハー

ユニット 165mm
最大出力 ..... 75W(10% THD, 80Hz)
電源 ..... 100V AC 50-60Hz
消費電力 25W
外形寸法(W x H x D) 200mmx330mmx320mm
質量 7.0kg

■付属品

リモコン
リモコン用乾電池(単3)x 2本
AMループアンテナ
FMアンテナ
スピーカーケーブル(5m×3本, 10m×2本)
サブウーハー用ケーブル(RCA)×1本
スピーカー用滑り止め×1シート
取扱説明書
保証書

仕様及び外観は改善のため予告なく変更することがあります。

3 ADJUSTMENTS AND CHECKS

調整と確認

■ ALIGNMENT INSTRUCTIONS

EQUIPMENT NEEDED:

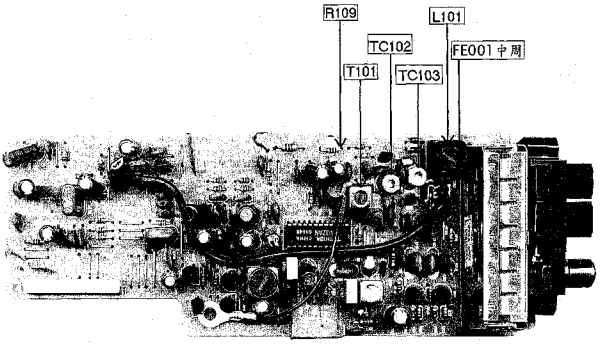
AM Signal Generator
FM Signal Generator
Oscilloscope
VTVM(AC, DC)
Test loop antenna (AW Adjustment)
Dummy antenna (FM Adjustment)
Stereo signal modulator
Frequency counter
Distortion analyser

IMPORTANT

1. Check power-source voltage.
2. Set the function switch to band aligned.
3. Keep the signal input as low as possible to adjust accurately.
4. Modulation and modulation frequency.

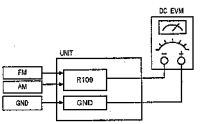
Item / Band	Modulation	Modulation frequency
AM	30%	400Hz
FM	30%(22.5kHz Dev.)	1kHz

■ ADJUSTMENT POINT



1. FM, AM TRACKING VOLTAGE ADJUSTMENTS FM/AMトラッキング電圧調整

(FM, AM) DC VOLTMETER ..... CONNECT TO TEST POINT R109 and GND

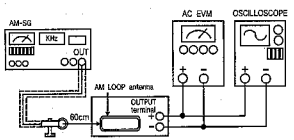


NO.	Band	Frequency	Adjust for	Adjustment
1	FM	87.50MHz [EUR,US] 76.00MHz [J]	1.5V	—
2	FM	108.00MHz [EUR,US] 90.00MHz [J]	8.4V	—
3	AM	522kHz [EUR,J] 530kHz [US]	1.5V	T101
4	AM	1620kHz [EUR,J] 1710kHz [US]	8.3V	TC102

2. AM RF ADJUSTMENT AM RF調整

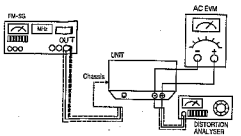
Signal Generator ..... Connects to the AM ANT. Coil through the loop antenna.
Adjust for the indication of VTVM of the wave form of scope to be maximum.

BAND	Step	Frequency	Adjust for	Adjustment
AM	1	612kHz [EUR,J] 610kHz [US]	Maximum sensitivity	L101
	2	1404kHz [EUR,J] 1400kHz [US]	Maximum sensitivity	TC103
	3	Repeat steps 1 and 2 several times.		



3. FM MO NO DISTORTION ADJUSTMENT FM MONO歪率調整

AC VOLT METER .....Connect to the output.
Signal Generator.....Connect to FM ANT Jack (FM IN) through the dummy.
Distortion Meter.....Connect to the output.



NO.	Frequency	Adjust for	Adjustment
1	98.10MHz [EUR,US] 82.00MHz [J]	Minimum T.H.D (<1%)	FE001中周

4. FM/AM AUTO STOP LEVEL CHECK FM/AMオートストップレベル確認

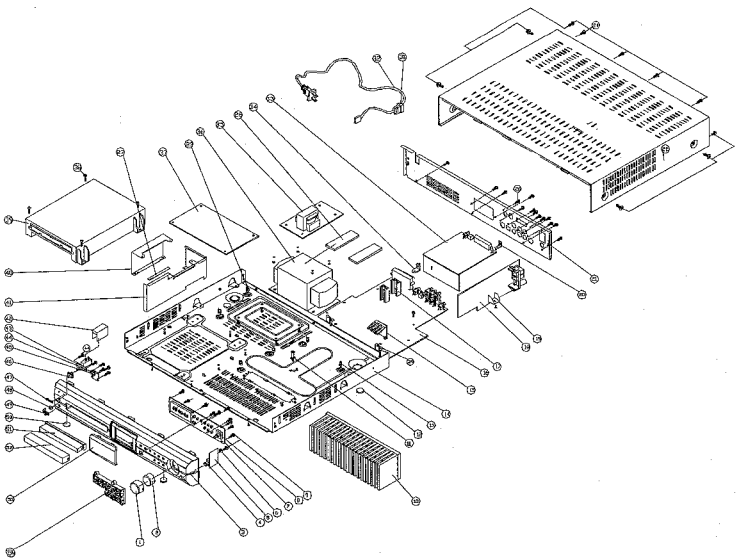
FM SIGNAL GENERATOR .....Connect to FM ANT Jack (FM IN) through the dummy
AM SIGNAL GENERATOR.....Connect to AM ANT, Coil through the Loop antenna

BAND	STEP	SIGNAL GENERATOR	Check	Result
FM	1	90.10MHz [EUR,US] 78.00MHz [J]	TUNED ≦32dB	OK/NG
	2	106.10MHz [EUR,US] 88.00MHz [J]	TUNED ≦32dB	OK/NG
AM	1	612kHz [EUR,J] 610kHz [US]	TUNED ≦84dB	OK/NG
	2	1404kHz [EUR,J] 1400kHz [US]	TUNED ≦84dB	OK/NG

4 EXPLODED VIEWS AND PARTS LIST

分解図とパーツリスト

EXPLODED VIEW-1



EXPLODED VIEW-1

REF. NO.		PARTS NO.	DESCRIPTION	REMARKS
1- 1		9A09114700	TRANSPRENT VOL	
1- 2		9A09114000	VOL KNOB	
1- 3		9A09113700	FRONT CAB [J,US,C,HK,SG,K,SAF,NZ]	
		9A09197200	FRONT CAB [E,UK,F]	
1- 4		9A07465300	PHONE JACK,BLK	
1- 5		9A09137900	PHONE PCB ASSY	
1- 6		9A09116600	WASHER,OD14XID3.2XT1.0MM	
1- 7		9A09137700	KEY PCB ASSY	
1- 8		9A08320700	R-ENCODER	
1- 9		9A09116300	SCREW,T3.0XL8.0XP1.05MM	
1-10		9A09125300	HEAT SINK	
1-11		9A09115300	SPACER SUPPORT,L=18	
1-12		9A09114800	RUBBER,DIA14XT3MM WHITE	
1-13		9A09197900	PCB BKT	
1-14		9A09115400	BOTTOM CAB	
1-15		9A09125400	HEAT SINK	
1-16		9A09113100	MAIN PCB ASSY [J,US,C,HK,SG,K,SAF,NZ]	
		9A09113140	MAIN PCB ASSY [E,UK,F]	
1-17		9A09125500	HEAT SINK	
1-18		9A09113200	TUNER PCB ASSY [J]	
		9A09113210	TUNER PCB ASSY [US,C]	
		9A09113220	TUNER PCB ASSY [HK,SG,K,SAF,NZ]	
		9A09113240	TUNER PCB ASSY [E,UK,F]	
1-19		9A09129500	PCB BKT	
1-20		9A09125600	BRACKET	
1-21		9A09198800	BACK CAB [J]	
		9A09115600	BACK CAB [US,C]	
		9A09248800	BACK CAB [HK,SG,K]	
		9A09248900	BACK CAB [E,UK,SAF,F]	
		9A09249000	BACK CAB [NZ]	
1-22		9A09115500	TOP COVER	
1-23		9A09113800	PLASTIC BRACKET	
1-24		9A09116000	SCREW,M3X6X0.5P	
1-26		9A09116000	SCREW,M3X6X0.5P	
1-27		9A09111100	SPONGE,L52XW5.5XT1.0MM	
1-28		9A09116800	RUBBER PAD,L54XW20XT3.0MM	
1-29		9A09125600	BRACKET	
1-30		9A09116000	SCREW,M3X6X0.5P	
1-31	⚠	9A08289700	AC LINE BUSHING	
1-32	⚠	9A09198100	LINE CORD [J]	
	⚠	9A09117200	LINE CORD [US,C]	
	⚠	9A09249700	LINE CORD [HK,UK]	
	⚠	9A09249800	LINE CORD [E,SG,SAF,F]	
	⚠	9A09249900	LINE CORD [K]	
	⚠	9A09250000	LINE CORD [NZ]	
1-33		9A09141000	PRO LOGIC+SCART PCB ASSY [J,US,C,HK,SG,K,NZ]	
		9A09141040	PRO LOGIC+SCART PCB ASSY [E,UK,SAF,F]	
1-34		9A09141400	PCB BKT	
1-35	⚠	9A09198200	PWR TRANSFORMER,100V [J]	
	⚠	9A09133400	PWR TRANSFORMER,120V [US,C]	
	⚠	9A09249800	PWR TRANSFORMER,230V [HK,SG,E,K,UK,SAF,NZ,F]	

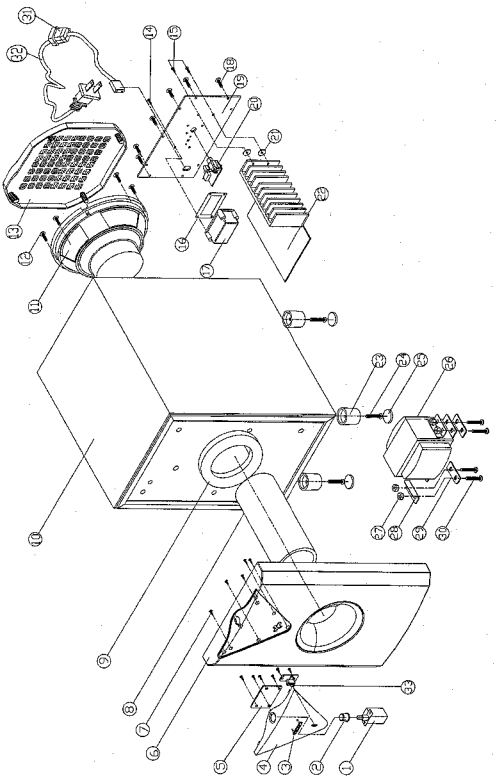
EXPLODED VIEW-1

REF. NO.		PARTS NO.	DESCRIPTION	REMARKS
1-36	⚠	9A09273500	PWR TRANSFORMER, 100V [J]	
	⚠	9A09117100	PWR TRANSFORMER, 120V [US, C]	
	⚠	9A09197100	PWR TRANSFORMER, 230V [HK, SG, E, K, UK, SAF, F]	
	⚠	9A09273600	PWR TRANSFORMER, 240V [NZ]	
1-37		9A09113000	MPEG PCB ASSY	
1-38		9A09116100	SCREW, M3X8XO. 5P	
1-39		9A09117800	DVD LOADER, DSL-710A DVS A	
1-40		9A09115700	BRACKET	
1-41		9A09115800	BRACKET	
1-42		9A09113500	POWER SW PROTECTOR	
1-43	⚠	9A09117000	SW, PUSH P12	
1-44		9A07465800	LED, RED	
1-45		9A09137900	LED PCB ASSY	
1-46		9A09114100	POWER KNOB	
1-47		9A09114900	LOGO PLATE	
1-48		9A09114400	LED LENS	
1-49		9A09114200	KNOB, STAND-BY KEY	
1-50		9A09114800	RUBBER, DIA14XT3MM WHITE	
1-51		9A09113600	DVD DOOR	
1-52		9A09114600	TRANSPRENT DOOR	
1-53		9A09114300	LCD LENS	
1-54		9A09113900	FUN. KNOB	

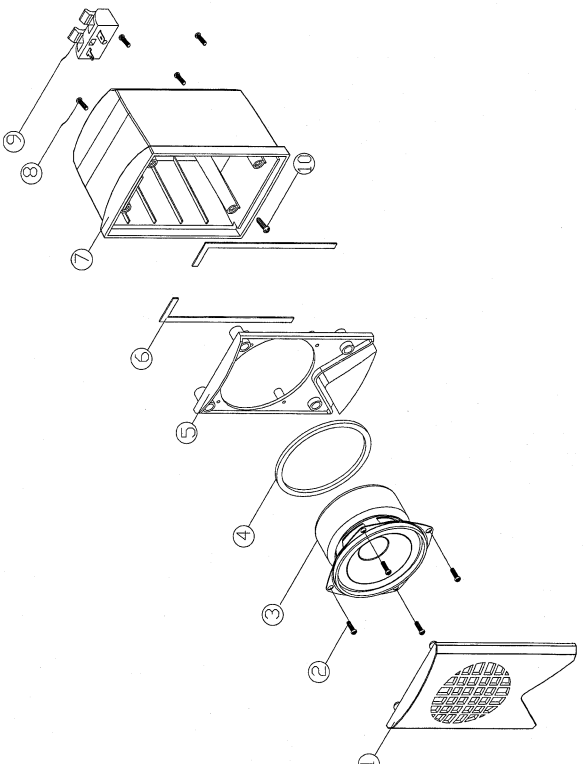
INCLUDED ACCESSORIES

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	9A09053900	OWNER'S MNL, J [J]	
	9A09053800	OWNER'S MNL, E/F [US, C]	
	9A09053700	OWNER'S MNL, E/F/G/I/S [EXCEPT J]	
	9A09110000	REMOTE CONTROL UNIT, RC829	S/No. 10900000 and earlier
	9A09110001	REMOTE CONTROL UNIT, RC829A	S/No. 10900001 and after
	9A09110400	BATTERY	
	9A09111500	WIRE, 5000MM (BLU/BLK)	
	9A09111600	WIRE, 10000MM (GRY/BLK)	
	9A09111700	WIRE, 5000MM (RED/BLK)	
	9A09111800	CABLE, RCA (BLK)	
	9A09111900	CABLE, RCA (RED/YEL/WHT)	
	9A09109900	LOOP ANT ASSY	
	9A09112000	T ANTENNA 75 OHM [J, US, C]	
	9A09205600	T ANTENNA [HK, SG, E, K, UK, SAF, NZ, F]	

EXPLODED VIEW-2



EXPLODED VIEW-3



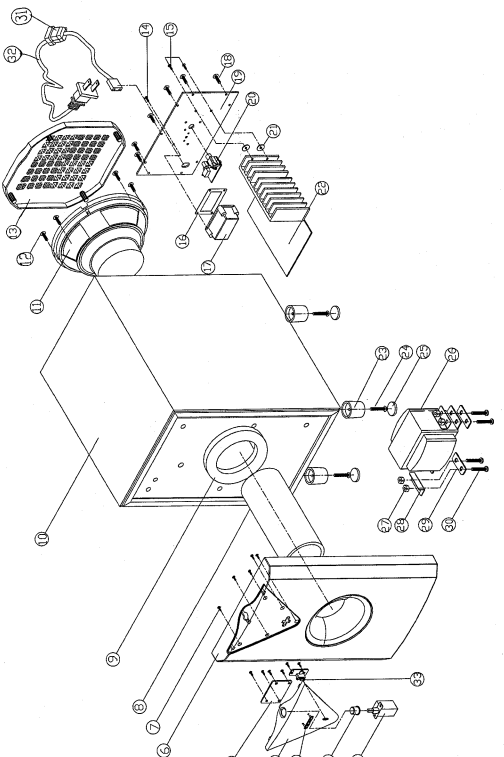
EXPLODED VIEW-3

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
3- 1	9A09118200	GRILLE	
3- 2	9A08755900	SCREW, T3. OXL8. OXP1. 06MM	
3- 3	9A09118600	SPK DRIVER, 25W 3INCH 4OHM (REAR)	
	9A09118700	SPK DRIVER, 25W 3INCH 4OHM (FRONT/CENTER)	
3- 4	9A09118900	SPONGE, OD79XID70XT3. OMM	
3- 5	9A09118000	SPK PANEL (FRONT/REAR)	
	9A09118100	SPK PANEL (CENTER)	
3- 6	9A09119100	SPONGE, L123XW5XT1MM	
3- 7	9A09117800	REAR COVER	
3- 8	9A08755800	SCREW, T3. OXL10. OXP1. 06MM	
3- 9	9A09118300	SPK JACK, 2P BLK-RED (FRONT)	
	9A09118400	SPK JACK, 2P BLK-BLU (CENTER)	
	9A09118500	SPK JACK, 2P BLK-GRY (REAR)	
3-10	9A09118800	SCREW, T4X12MM BLK	

EXPLODED VIEW-2

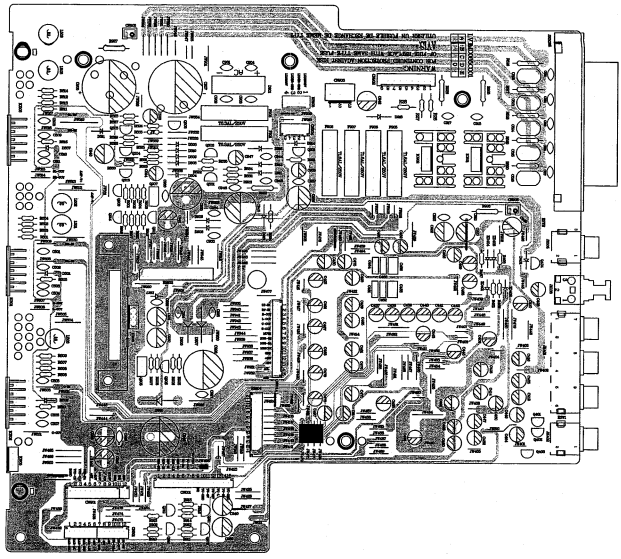
REF. NO.		PARTS NO.	DESCRIPTION	REMARKS
2- 1	⚠	9A09117000	SW,PUSH P12	
2- 2		9A09143200	POWER KNOB	
2- 3		9A09143700	LOGO PLATE	
2- 4		9A09143400	SPK TRIM	
2- 5		9A09140200	SW PCB ASSY	
2- 6		9A09143000	SPK,CAB	
2- 7		9A09145200	SCREW,T2.6XP1.07XL8.0MM	
2- 8		9A09143900	PORT TUBE,OD65XID55XL155M	
2- 9		9A09145600	SPONGE,OD118XID50XT10MM	
2-10		9A09144100	WOOD BOX [EXCEPT J]	
		9A09197300	WOOD BOX [J]	
2-11		9A09144200	SPK DRIVER,100W 6.5INCH 4OHM	
2-12		9A09144600	SCREW,M3.5X14MM BLK	
2-13		9A09143100	GRILLE	
2-14		9A09145100	SCREW,M3X10 BLK	
2-15		9A08755900	SCREW,T3.0XL8.0XP1.06MM	
2-16		9A09146000	COVER SPONGE,L34XW4.5XT3MM	
2-17		9A09142800	REAR COVER	
2-18		9A09144500	SCREW,M3.5X14MM BLK	
2-19		9A09197400	REAR PLATE [J]	
		9A09144400	REAR PLATE [US,C]	
		9A09249100	REAR PLATE [HK,SG,E,K,UK,SAF,F]	
		9A09249200	REAR PLATE [NZ]	
2-20		9A09133600	JACK SWITCH PCB ASSY	
2-21		9A09145300	FIBER,DIA12XID3.5XT1.6MM	
2-22		9A09134100	AMP PCB ASSY	
2-23		9A09142900	FOOT,D25XL25	
2-24		9A09144700	SCREW,T4X20MM BLK [EXCEPT J]	
		9A09197600	SCREW,T4X25MM BLK [J]	
2-25		9A09145400	RUBBER PAD,D20XT3MM BLK	
2-26	⚠	9A09274700	PWR TRANSFORMER,100V [J]	
	⚠	9A09146500	PWR TRANSFORMER,120V [US,C]	
	⚠	9A09274800	PWR TRANSFORMER,230V [HK,SG,E,K,UK,SAF,NZ,F]	
2-27		9A09116500	NUT,M4.0XOD7.0XT3.0MM	
2-28		9A09144300	BRACKET,X'FORMER	
2-29		9A09143500	RUBBER PAD,50X12XT2MM	
2-30		9A09144900	SCREW,M4X25XO.7MM BLK	
2-31	⚠	9A09143800	BUSHING	
2-32	⚠	9A07441300	LINE CORD [J]	
	⚠	9A09146600	LINE CORD [US,C]	
	⚠	9A09420200	LINE CORD [HK,UK]	
	⚠	9A09420300	LINE CORD [SG,E,SAF,F]	
	⚠	9A09420400	LINE CORD [K]	
	⚠	9A07469800	LINE CORD [NZ]	
2-33		9A09143300	LED LENS	

EXPLODED VIEW-2

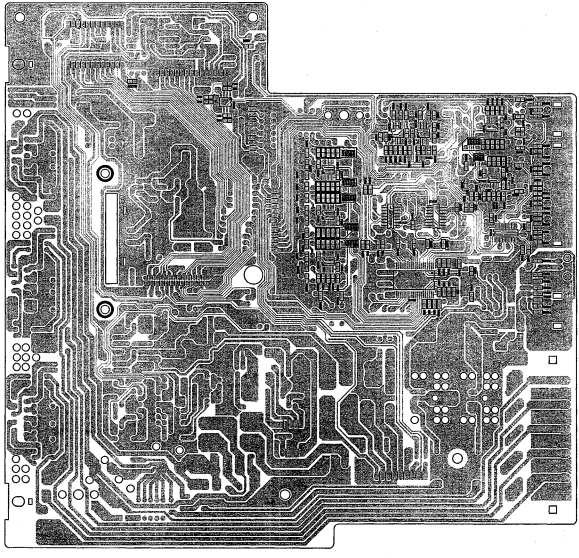


5 PC BOARDS AND PARTS LIST
基板図とパーツリスト

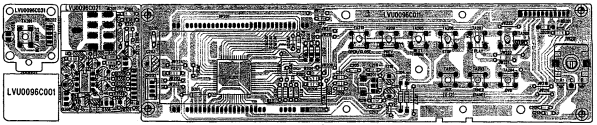
MAIN PCB (SIDE A)



MAIN PCB (SIDE B)



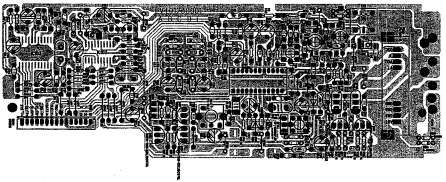
KEY PCB



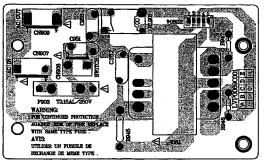
REGIONAL	JW281	JW282	JW283
1	1	1	1
2	1	1	0
3	1	0	1
4	1	0	0
5	0	1	1
6	0	1	0

JUMPER WIRE SETUP:
1=INSTALL, 0=NOT INSTALL

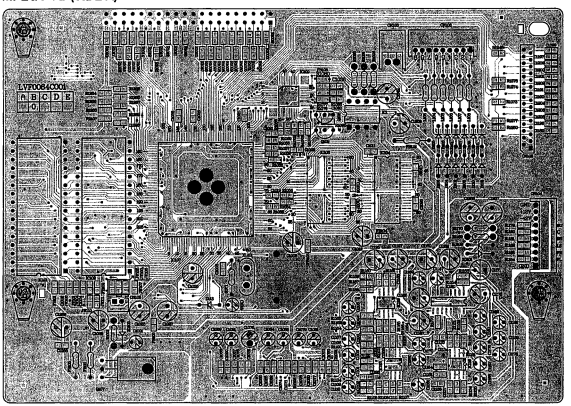
TUNER PCB



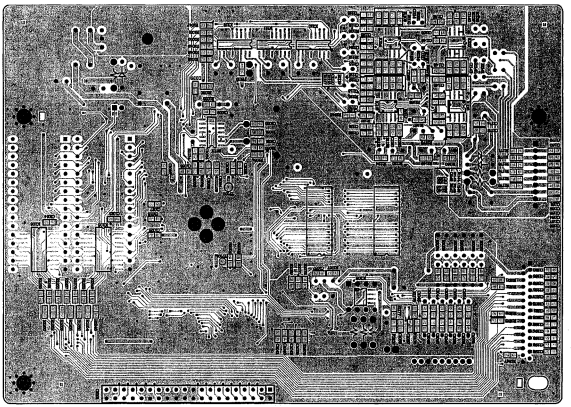
POWER PCB



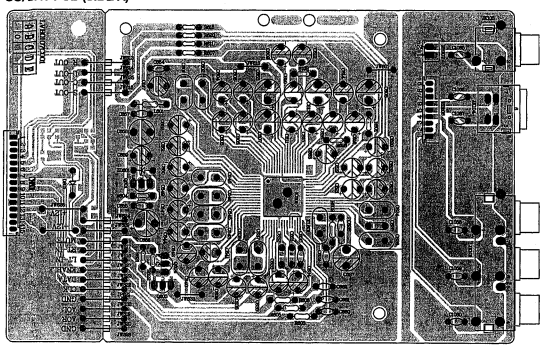
MPEG PCB (SIDE A)



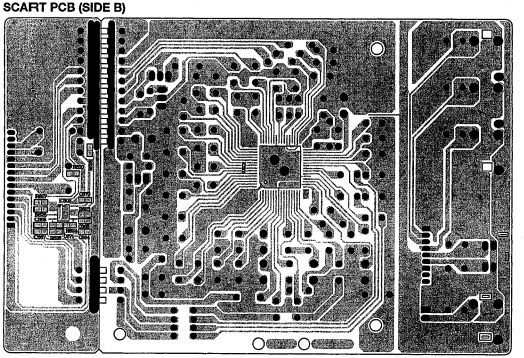
MPEG PCB (SIDE B)



SCART PCB (SIDE A)



SCART PCB (SIDE B)



MAIN PCB ASSY

REF. NO.		PARTS NO.	DESCRIPTION
		9A09113100	MAIN PCB ASSY [J,US,C,HK,SG,K,SAF,NZ]
		9A09113140	MAIN PCB ASSY [E,UK,F]
		9A09128400	MAIN PCB
		9A08773200	WASHER, ID=3 OD=6 H=2.5MM
		9A09125300	HEAT SINK
		9A08290700	MICA
		9A09125600	BRACKET
		9A09116000	SCREW, M3X6X0.5P
		9A09116300	SCREW, T3.0XL8.0XP1.06MM
C455		9A09125200	SLEEVING, OD2XID1XL5MM
C905, C907	⚠	9A08829500	C, ELECT 6800UF/25V 20%
C926, C945	⚠	9A08829400	C, ELECT 3300UF/25V 20%
C935	⚠	9A09126000	C, ELECT, 2200UF/25V 20%
CN001		9A08299800	CONNECTOR, TUC-P10P-B1
CN201		9A09124600	CONNECTOR, 12PIN
CN301		9A09124500	CONNECTOR, 7PIN
CN601A		9A09027100	CONNECTOR, TUC-P15P-B1
CN902		9A09124400	CONNECTOR, B9B-XH-A 9PIN
CN903		9A07466200	CONNECTOR, CL3962WVO 3PIN
CN904		9A08300100	CONNECTOR
D401		9A07449400	DIODE, 1N4148
D501-D504		9A07449400	DIODE, 1N4148
D507-D510		9A07449400	DIODE, 1N4148
D901	⚠	9A09126700	RECTIFIER, KBU8B
D906, D907		9A07466400	SLEEVING, OD3.0XID2.5XL10
D906, D907	⚠	9A07462200	RECTIFIER, 1N5401
D908, D909	⚠	9A07461600	RECTIFIER, 1N4001
D910		9A07466400	SLEEVING, OD3.0XID2.5XL10
D910		9A07462200	RECTIFIER, 1N5401
D911, D912	⚠	9A07461600	RECTIFIER, 1N4001
D913-D916		9A07461600	RECTIFIER, 1N4001
D917		9A09125200	SLEEVING, OD2XID1XL5MM
D917		9A09126600	RECTIFIER, 1N5392
F901, F902		9A07451800	FUSE CLIP
F901, F902	⚠	9A09125800	FUSE, 6.3A 250V SLOW
F905-F908		9A07451800	FUSE CLIP
F905-F908	⚠	9A09125700	FUSE, 1.6A 250V SLOW
IC401		9A09045500	IC, TC4052BFN
IC402-404		9A09123800	IC, JRC4558D
IC405, 406		9A08824200	IC, TC4053BFN
IC407		9A09123800	IC, JRC4558D
IC408		9A09046300	IC, M62446FP
IC409-411		9A09123800	IC, JRC4558D
IC501-503		9A09126800	IC, TDA7265
IC901	⚠	9A08825600	IC, 7812
IC901, 902		9A09125500	HEAT SINK
IC902	⚠	9A09127000	IC, 7912
IC903		9A09125400	HEAT SINK
IC903	⚠	9A07463000	IC, MC7806ACT
IC905	⚠	9A09126900	IC, BA05T
JK105		9A09125100	RCA JACK, 1P BLK
JK106		9A09124900	TOSLINK JACK, TOTX178A
JK401		9A09124700	RCA JACK, 6P WHT/RED
JK402		9A09125000	RCK JACK, 1P BLK

MAIN PCB ASSY

REF. NO.		PARTS NO.	DESCRIPTION
JK501		9A09124800	SPK JACK, 10P
L501-L503		9A07464000	RF COIL, 1UH
L505, L506		9A07464000	RF COIL, 1UH
Q401-Q403		9A07461700	TR, 2SC2878
Q404		9A07449500	TR, 2SC945P
Q501-Q503		9A07449500	TR, 2SC945P
Q504, Q505		9A07449600	TR, 2SA733Q/P
Q506		9A07449500	TR, 2SC945P
Q901		9A07450400	TR, 2SC2001L
Q905, Q907		9A07463800	TR, 2SB772P/Q
Q906, Q908		9A07461700	TR, 2SC2878
Q909, Q911		9A07449600	TR, 2SA733Q/P
Q910, Q912		9A07449500	TR, 2SC945P
Q913		9A07449600	TR, 2SA733Q/P
Q914		9A07449500	TR, 2SC945P
R26-R28		9A09125200	SLEEVING, OD2XID1XL5MM
R443, R448		9A09125200	SLEEVING, OD2XID1XL5MM
R516-R519		9A09125200	SLEEVING, OD2XID1XL5MM
R904, R908		9A09125200	SLEEVING, OD2XID1XL5MM
R922	⚠	9A09127500	R, 33 OHM 1/2W 5%
R925, R926		9A09125200	SLEEVING, OD2XID1XL5MM
R925, R926	⚠	9A09126400	R, 1 OHM 1/2W 5%
RB102		9A09124300	CONNECTOR, 28P FFC
ZD401, 402		9A09045000	DIODE, ZENER 6.9-7.2V 0.5W
ZD403, 404		9A07461800	DIODE, ZENER 6.0-6.3V 0.5W

KEY PCB ASSY (GATHER)

REF. NO.	PARTS NO.	DESCRIPTION
	9A09113400	KEY PCB ASSY [J,US,C]
	9A09113420	KEY PCB ASSY [HK,SG,E,K,UK,SAF,NZ,F]
KEY PCB ASSY		
	9A09137700	KEY PCB ASSY
	9A09139500	KEY PCB
CN202	9A08310300	CONNECTOR, B 4B-PH-K
D201-D203	9A07449400	DIODE, 1N4148
DP201	9A09138200	VFD
IC201	9A09138600	IC, PT6311
SN201	9A09138700	IRT SENSOR
TA202-210	9A09138300	SW, TACT
VR201	9A08320700	R-ENCODER
ZD201	9A09121800	DIODE, ZENER 4.1-4.3V 0.5W
PHONE PCB ASSY		
	9A09137800	PHONE PCB ASSY
C306, C307	9A07461700	TR, 2SC2878
FB302, 303	9A09121900	BEAD FERIT, 3.5D1A X 6MM
IC304	9A09139000	IC, TDA2822
JK301	9A07465300	PHONE JACK, BLK
Q308	9A07450400	TR, 2SC2001L
ZD301	9A07461800	DIODE, ZENER 6.0-6.3V 0.5W
LED PCB ASSY		
	9A09137900	LED PCB ASSY
D204	9A07465600	LED, RED
TA201	9A09138300	SW, TACT

TUNER PCB ASSY

REF. NO.		PARTS NO.	DESCRIPTION
		9A09113200	TUNER PCB ASSY [J]
		9A09113210	TUNER PCB ASSY [US,C]
		9A09113220	TUNER PCB ASSY [HK,SG,K,SAF,NZ]
		9A09113240	TUNER PCB ASSY [E,UK,F]
		9A09132300	TUNER PCB [EXCEPT J]
		9A09197000	TUNER PCB [J]
		9A09129500	PCB BKT
		9A09132100	TUNER PACK [EXCEPT J]
		9A09196900	TUNER PACK [J]
CF101,102		9A09129700	CERAMIC FILTER,10.7MHZ
CF103		9A09129800	CERAMIC FILTER,450KHZ
CF104		9A09129900	CERAMIC FILTER,CDA10.7MG-18A
CF105		9A09130000	RESONATOR,CRB456F18
D101-D105		9A07449400	DIODE,1N4148
IC101		9A09131400	IC,TA8132AN
IC102		9A09131300	IC,TC9257F
JK002		9A09129300	ANT JACK,BLK
L101		9A09131800	ANT OSC,AM
L103,L104		9A08305300	CHOKE,10UH
L105,L106		9A09131600	CHOKE,39MH
L142		9A08305300	CHOKE,10UH [EXCEPT J]
L143		9A08305300	CHOKE,10UH [J]
Q101,Q102		9A09133000	TR,2SC1675L
Q103		9A07449500	TR,2SC945P
Q104		9A07449600	TR,2SA733Q/P
Q106,Q107		9A07449600	TR,2SA733Q/P
Q108		9A09132900	FET,2SK192A-Y/GR
Q109,Q110		9A07449500	TR,2SC945P
RB101		9A08305600	CONNECTOR,TUC-P10X-B1
T101		9A09131900	OSC AM,108UH
T102		9A09131700	IFT AM,455KHZ
TC102		9A09130200	C,TRIM 4.2-20PF
TC103		9A09130100	C,TRIM 3-10PF NPO
VD102,103		9A09131500	DIODE,1SV149B
XL102		9A09129800	CRYSTAL,7.2000MHZ
ZD101		9A09132500	DIODE,ZENER 3.8-4.0V 0.5W

POWER PCB ASSY

REF. NO.		PARTS NO.	DESCRIPTION
		9A09113300	POWER PCB ASSY [J]
		9A09113310	POWER PCB ASSY [US,C]
		9A09113320	POWER PCB ASSY [HK,SG,E,K,UK,SAF,NZ,F]
		9A09133100	POWER PCB
	⚠	9A09198200	PWR TRANSFORMER,100V [J]
	⚠	9A09133400	PWR TRANSFORMER,120V [US,C]
	⚠	9A09249600	PWR TRANSFORMER,230V [HK,SG,E,K,UK,SAF,NZ,F]
C951	⚠	9A09133300	C,SAFETY 0.001UF/400V

POWER PCB ASSY

REF. NO.		PARTS NO.	DESCRIPTION
C952,C953	⚠	9A07464900	C,SAFETY 0.01UF 20%
CN907,909		9A07464500	CONNECTOR,4PIN
CN908		9A08297700	CONNECTOR,3PIN
F903	⚠	9A09026400	FUSE,3.15A 250V SLOW
FOR F903		9A07442900	FUSE COVER
FOR F903		9A07451600	FUSE CLIP
R945		9A09125200	SLEEVING,OD2X1D1XL5MM
R945	⚠	9A08298000	R,4.7M OHM 1/2W
R946,R947		9A09125200	SLEEVING,OD2X1D1XL5MM
RL901	⚠	9A09133200	RELAY,5VDC 40MA

MPEG PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	9A09113000	MPEG PCB ASSY
	9A09122000	MPEG PCB
CN101	9A09120300	CONNECTOR,40P
CN102	9A09120200	CONNECTOR,28P FFC
CN103	9A08831500	CONNECTOR,S2B-XH-A 2P
CN104	9A09120500	CONNECTOR,10P
CN108	9A09120400	CONNECTOR,9P
D101-D113	9A07449400	DIODE,1N4148
FB105	9A09121900	BEAD FERIT,3.5DIA X 6MM
FB111,112	9A09121900	BEAD FERIT,3.5DIA X 6MM
IC101,102	9A09120600	IC SOCKET,32P
IC101,102	9A09121300	IC,F29C51004T-90PC
IC103,104	9A09124000	IC,SDRAM 512KX2X16
IC105,106	9A09124100	IC,74HC374
IC107	9A09123700	IC,ES4408
IC108	9A09121200	IC,AT24C02
IC109	9A09123900	IC,CS4955-CQ
IC110-112	9A09123600	IC,CS4340
IC113-119	9A09123800	IC,JRC4558D
IC120	9A09046500	IC,TC4052BFN
IC122	9A09046400	IC,TC74HC04AFN
L103-L108	9A09121400	CHOKE,2.2UH
L109	9A08305300	CHOKE,10UH
Q102,Q108	9A07449500	TR,2SC945P
Q107	9A07463500	TR,2SD882P
R1095	9A09121700	R,2K 1/6W 1%
R1096	9A09121700	R,2K 1/6W 1%
XL101	9A09120700	CRYSTAL,27MHZ
ZD101,102	9A09045000	DIODE,ZENER 6.9-7.2V 0.5W
ZD103	9A09121800	DIODE,ZENER 4.1-4.3V 0.5W

PRO LOGIC+SCART PCB ASSY

REF. NO.		PARTS NO.	DESCRIPTION
		9A09141000	PRO LOGIC+SCART PCB ASSY [J,US,C,HK,SG,K,NZ]
		9A09141040	PRO LOGIC+SCART PCB ASSY [E,UK,SAF,F]
		9A09142000	PRO LOGIC+SCART PCB
		9A09141400	PCB BKT
		9A09116000	SCREW,M3X6X0.5P
CN601		9A09042600	CONNECTOR,TUC-P15X-B1
IC601		9A09141600	IC,LV1035M
IC602		9A09123800	IC,JRC4558D
JK101		9A09141300	JACK RCA,RED/GRN/BLU
JK103		9A09141500	RCA JACK,1P YELLOW
JK104		9A09141200	DIN JACK,4PIN DSW-04 DVD
L601		9A08305300	CHOKE,10UH
Q601		9A07450400	TR,2SC2001L
Q603,Q604		9A07461700	TR,2SC2878
XL601		9A08305800	RESONATOR,8MHZ
ZD601		9A08820300	DIODE,ZENER 9.1-9.5V 0.5W

JACK SWITCH PCB ASSY [SUB WOOFER]

REF. NO.		PARTS NO.	DESCRIPTION
		9A09133600	JACK SWITCH PCB ASSY
		9A09134000	JACK SWITCH PCB
JK301		9A09125000	RCA JACK,1P BLK
SW301		9A09133800	SW,SLIDE

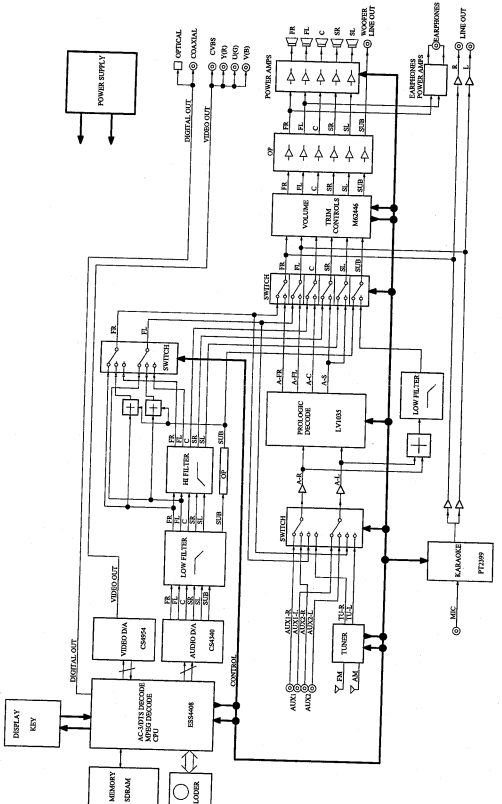
LED+SW PCB ASSY (GATHER) [SUB WOOFER]

REF. NO.		PARTS NO.	DESCRIPTION
		9A09140100	LED+SW PCB ASSY
SW PCB ASSY			
		9A09140200	SW PCB ASSY
C920	△	9A07464900	C,SAFETY 0.01UF 20%
SW920	△	9A09117000	SW,PUSH P12
LED PCB ASSY			
		9A09140300	LED PCB ASSY
D920		9A09140700	LED,ORG/GREEN

AMP PCB ASSY [SUB WOOFER]

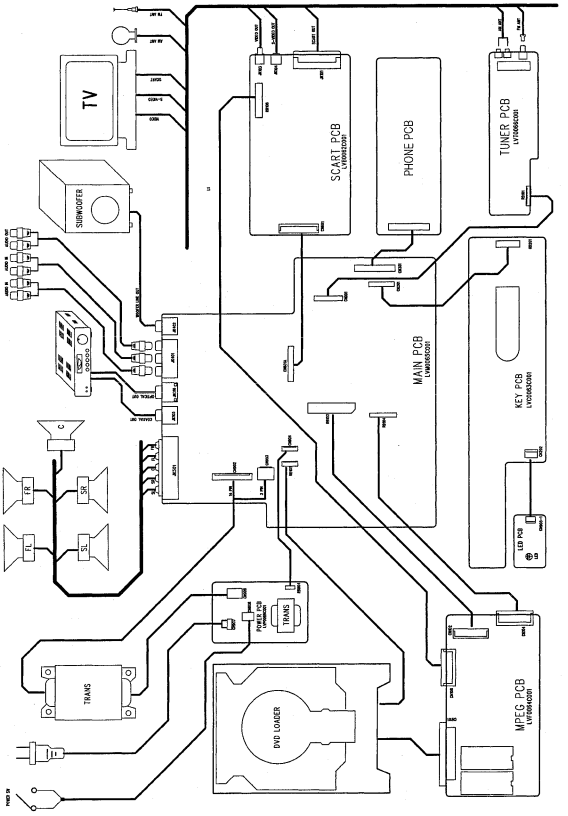
REF. NO.		PARTS NO.	DESCRIPTION
		9A09134100	AMP PCB ASSY
		9A09136100	AUDIO AMP PCB
		9A09134500	HEAT SINK
		9A08028900	BRACKET
		9A08755400	SCREW,M3.0XL8.0XP0.5
		9A09134700	SCREW,T3.0XL12.0MM BLK
BD901	△	9A09135600	RECTIFIER,RS402L
C905,C906	△	9A08829600	C,ELECT 4700UF/50V 20%
CN301		9A08300000	CONNECTOR,B 3B-PH-K
CN401		9A08309300	CONNECTOR,B 2B-XH-A 2PIN
CN501		9A09135900	WIRE TERM
CN901		9A09134400	CONNECTOR,3P
D401-D404		9A07449400	DIODE,1N4148
D501,D507		9A07461600	RECTIFIER,1N4001
D502-D504		9A07449400	DIODE,1N4148
D506		9A07449400	DIODE,1N4148
F901,F902	△	9A09198300	FUSE,4A 125V SLOW
F901,F902		9A07451800	FUSE CLIP
IC401		9A08825400	IC,TL074CN
L501		9A07464000	RF COIL,1UH
Q401-Q404		9A07449500	TR,2SC945P
Q501,Q502		9A07449500	TR,2SC945P
Q504,Q505		9A07449500	TR,2SC945P
Q506		9A07449600	TR,2SA733Q,P
Q507,Q508		9A07449600	TR,2SA733Q,P
Q509,Q510		9A07449500	TR,2SC945P
Q511		9A07463900	TR,2SA965-Y
Q512		9A07463600	TR,2SC2235-Y
Q513	△	9A09135800	TR,2SA1941-O
Q513,Q514		9A09134600	MICA SHEET
Q514	△	9A09135700	TR,2SC5198-O
Q515,Q518		9A07449600	TR,2SA733Q,P
Q516,Q517		9A07449500	TR,2SC945P
R513,R517	△	9A09135300	R,0.22 OHM 5W 5%
R520,R522	△	9A07458200	R,4.7 OHM 1/2W
R521	△	9A09136300	R,3.9K OHM 1/2W 5%
R525	△	9A09135200	R,620 OHM 2W 5%
R901	△	9A09135400	R,470 OHM 2W 5%
R902	△	9A09135500	R,560 OHM 2W 5%
RL501		9A09134900	RELAY,RPA-12V
ZD501		9A08310000	DIODE,ZENER 11.9-12.4V 0.5W
ZD502-504		9A09137000	DIODE ZENER 14.5-15.1V 0.5W

6 BLOCK DIAGRAM
ブロック図

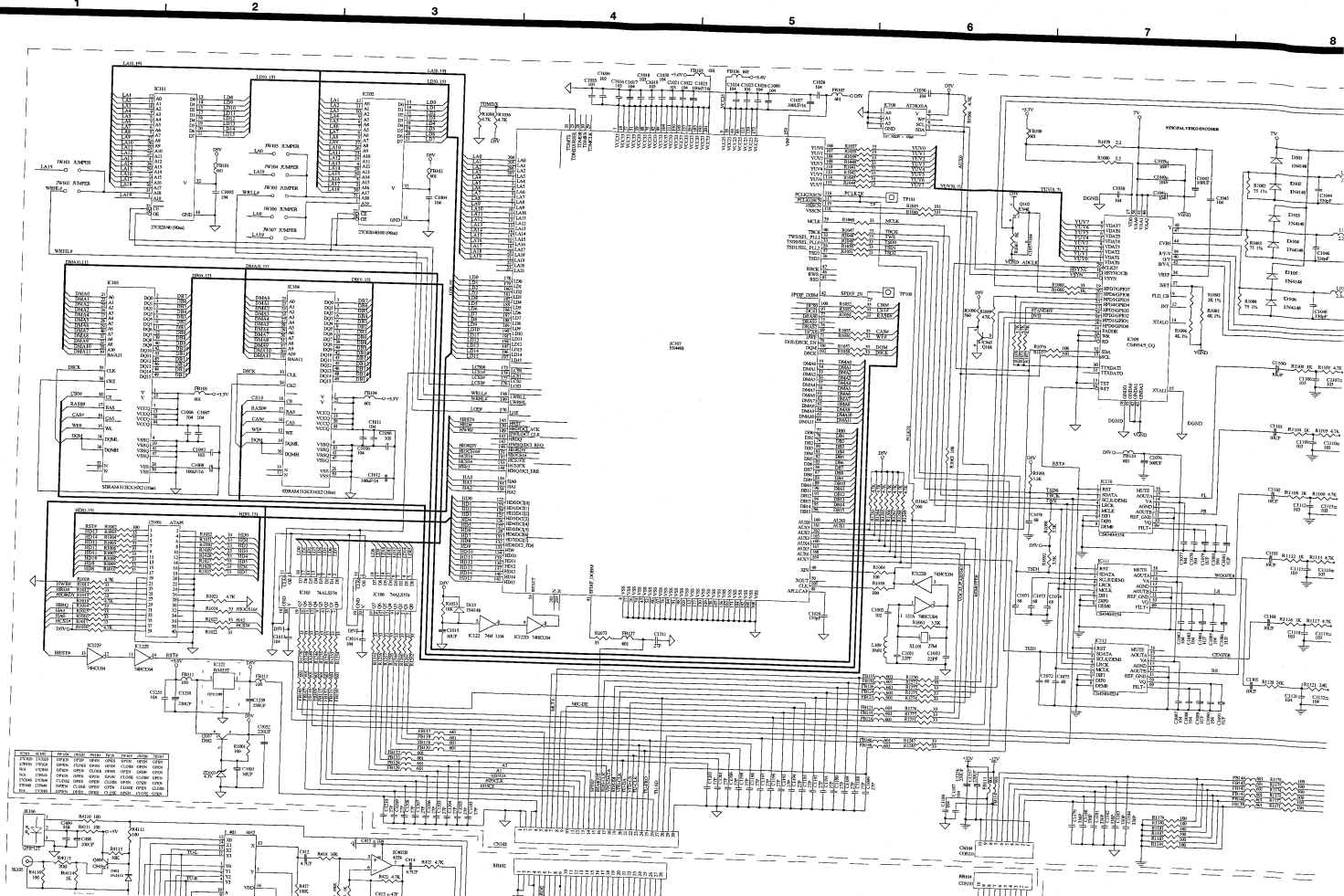


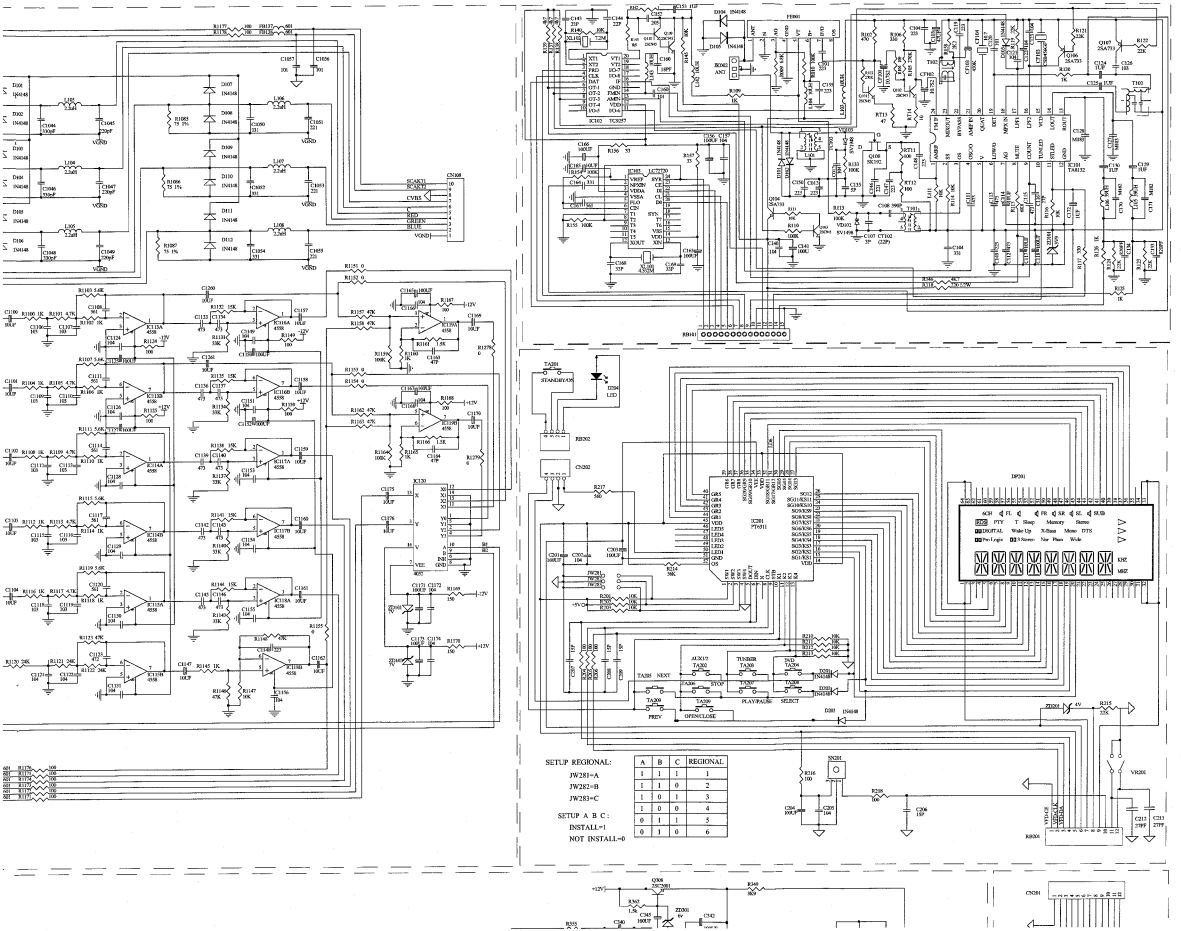
7 WIRING DIAGRAM

結線図

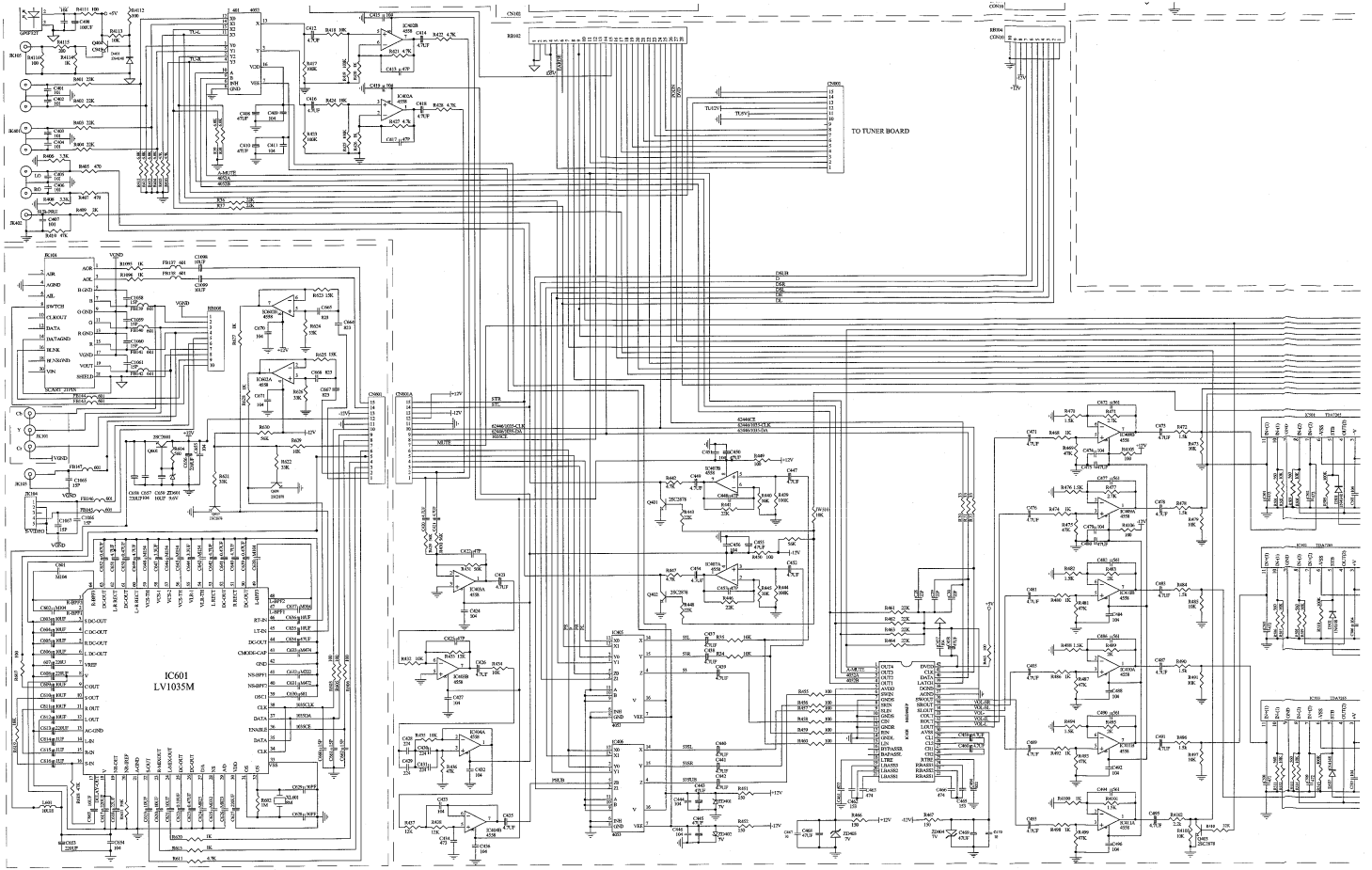


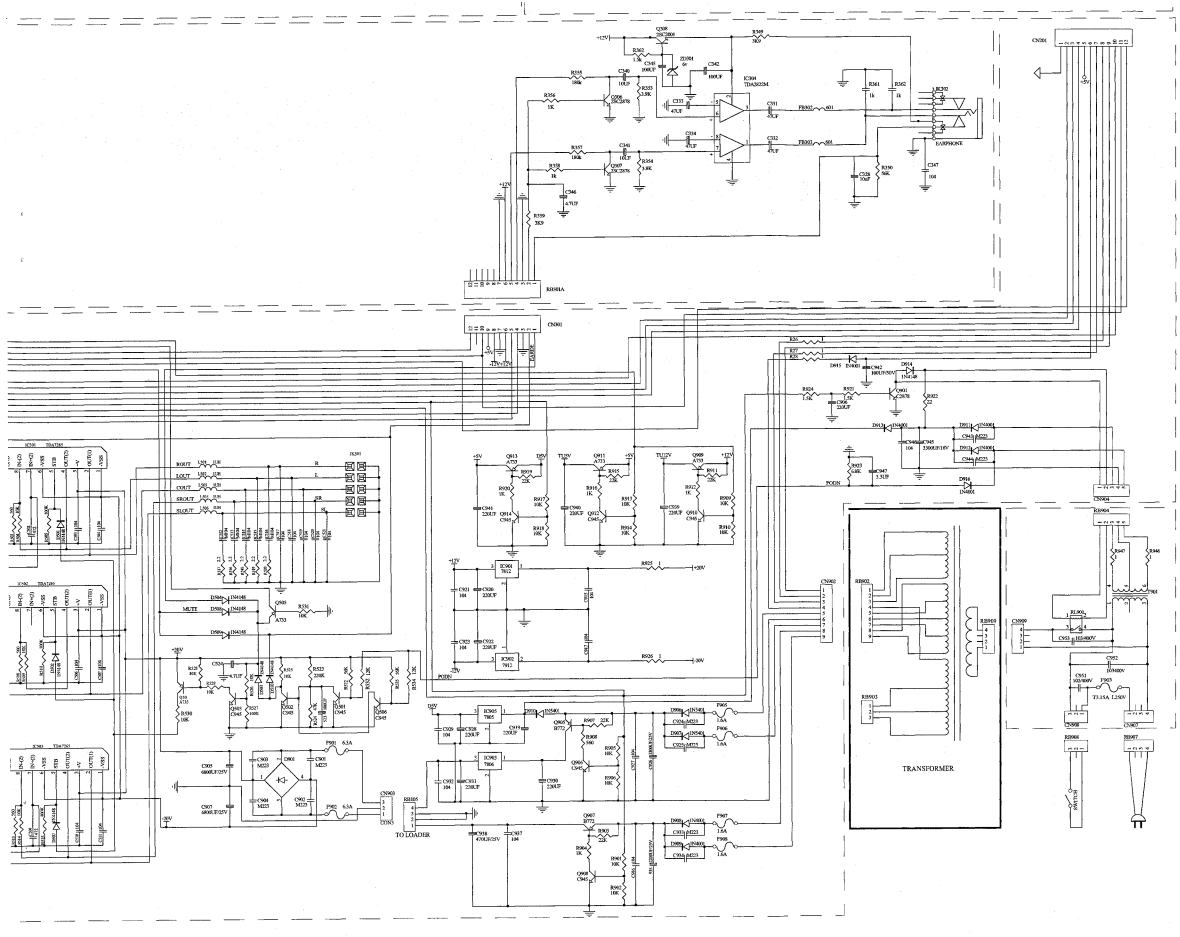
TEAC SCHEMATIC DIAGRAM **PL-D2000**





SETUP REGIONAL:	A	B	C	REGIONAL
JW281=A	1	1	1	1
JW282=B	1	1	0	2
JW283=C	1	0	1	3
SETUP A B C :	1	0	0	4
INSTALL=1	0	1	1	5
NOT INSTALL=0	0	1	0	6


IC601
LV1035M
TO TUNER BOARD
INSTRUCTIONS FOR SERVICE PERSONNEL
BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.



PL-D2000

HOME THEATER SYSTEM

1 st Issue; September 2001